8310

Power Module

EXACT PUBLISHED IDENTITY

TRICONEX 8310 is a 175 W high-density power module designed for 120 VAC or VDC Tricon chassis service. The module supports redundant controller power arrangements when installed in an approved main, expansion or RXM chassis.

Technical snapshot

Product role	175 W high-density power module
Nominal input	120 VAC/VDC
Recommended range	120 VAC/VDC (-15% to +10%)
AC input range	85-140 VAC at 47-63 Hz
DC input range	95-180 VDC
Input power	240 W minimum per source
Fuse	5 A time-delay
Isolation	1,000 VAC or 1,500 VDC input-to-output

Engineering data

Verified exact-model values from official manufacturer evidence

Published characteristics

Power factor	0.70 typical
Chassis support	Main, expansion and RXM chassis
Redundancy	Two module positions per chassis
Status supervision	Power, alarm, temperature and battery indications

EVIDENCE BOUNDARY

Confirm the complete 8310 identity, installed system record and approved companion hardware before replacement or commissioning.

ENGINEERING CONTROL

For 8310, the verified dataset records nominal input as 120 VAC/VDC and recommended range as 120 VAC/VDC (-15% to +10%). These values must be applied only after the complete installed marking, cabinet record and approved system architecture have been reconciled.

Verified related ApterPower product pages

- TRICONEX 3502E
- TRICONEX 3503E
- TRICONEX 3504E
- TRICONEX 3511
- TRICONEX 3624
- TRICONEX 3664
- TRICONEX 3703E
- TRICONEX 3704E

System role and applications

Documented contexts without configuration inference

INSTALLED TRICON SYSTEMS

Controlled service where the approved system records explicitly identify 8310.

PLANNED MAINTENANCE

Like-for-like inspection or replacement work that preserves the documented power module arrangement.

LIFECYCLE-MANAGED SPARES

Exact-identity spare control for operating installations that retain the TRICONEX 8310 designation.

COMMISSIONING VERIFICATION

Functional checks that confirm the recorded interface, configuration and diagnostics after 8310 is installed.

Integration control

Two Power Modules can be installed in the chassis so the controller can share normal load and retain supply redundancy. The 8310 accepts both AC and DC input ranges published in the manufacturer table, with dedicated status and alarm indications. Source isolation, fuse rating and the complete chassis power record must be checked before replacement.

Technical questions

Complete answers tied to the exact published model

What function does TRICONEX 8310 perform?

TRICONEX 8310 performs the documented role of a power module within the applicable installed-system architecture.

Which nominal input is specified for 8310?

The manufacturer specifies the nominal input for 8310 as 120 VAC/VDC.

How does the manufacturer define the recommended range of 8310?

The manufacturer specifies the recommended range for 8310 as 120 VAC/VDC (-15% to +10%).

What ac input range applies to the TRICONEX 8310?

The manufacturer specifies the ac input range for 8310 as 85-140 VAC at 47-63 Hz.

Where does 8310 fit with respect to dc input range?

The manufacturer specifies the dc input range for 8310 as 95-180 VDC.

Why must the input power be checked on 8310?

The manufacturer specifies the input power for 8310 as 240 W minimum per source.

When replacing 8310, which fuse must match the record?

The manufacturer specifies the fuse for 8310 as 5 A time-delay.

What does the manual state about the isolation for 8310?

The manufacturer specifies the isolation for 8310 as 1,000 VAC or 1,500 VDC input-to-output.

Product precautions

Eight controlled checks before return to service

1. Record the complete TRICONEX 8310 marking and installed position before work.
2. Place the controller and affected process function in the approved safe maintenance state.
3. Verify the documented system version, companion hardware and interface assigned to 8310.
4. Isolate the applicable controller and field energy in accordance with the approved procedure.
5. Inspect connectors, keys, cable assemblies and mechanical retention before installation.
6. Install 8310 only in the recorded location without changing the approved architecture.
7. Restore power under control and confirm the specified indicators, communications and diagnostics.
8. Document the final identity, configuration and functional acceptance results before release.

Manufacturer evidence used

- TRICONEX Planning and Installation Guide for Tricon v9-v11 Systems, document 9720100-012.
- TRICONEX Technical Product Guide, document 9791007-013.
- TRICONEX Field Terminations Guide for Tricon v9-v10 Systems, document 9700052-018.

Verified related ApterPower product pages

- TRICONEX 4210
- TRICONEX 4329
- TRICONEX 4119A
- TRICONEX 8312

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